



ISSN 0305-0076

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Review of Applied Entomology Series A : Agricultural

1989 VOLUME 77 ANNUAL INDEXES

Includes List of Source Journals

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Review of Applied Entomology Series A Agricultural

is a monthly journal prepared by the
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in association with the CAB International Institute of Entomology

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CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

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The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

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Animal Science and Production

Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases

Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production

Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry

Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection

Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology

Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings

Agricultural Engineering Abstracts.

Human Nutrition

Nutrition Abstracts & Reviews, Series A-Human & Experimental.

Biotechnology/Biodeterioration

AgBiotech News & Information; Biodeterioration Abstracts.

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CAB ABSTRACTS on Compact Disc

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Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

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CIE currently provides the following unique and expanding range of taxonomic services for agriculture, horticulture, forestry, food storage, land management, public health and related subjects.

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Publications: Books, monographs, manuals and maps. Current list available on request.

NOTES FOR READERS

Names or phrases in square brackets in a title or abstract have been added during abstracting and do not appear in the original.

The scientific names of arthropods are checked against those in an index that is constantly revised with the assistance of taxonomists; those of other organisms are checked with standard reference sources. Where a scientific name only is cited in an abstract, the name used by the author is given first, followed in square brackets by the name considered to be the valid one, where these differ. Thereafter, the valid name only is used. Where a common name is cited in an abstract, it may be followed in round brackets by the scientific name provided by the author, corrected in square brackets if necessary, or by the scientific name in square brackets if none was provided by the author. It should be noted that prior to 1985 square brackets were not used in this way and the scientific name held to be valid was cited first, followed in round brackets by that used by the author where these differed.

Names of pesticides, including acaricides and insecticides, follow ISO 1750 *Pesticides and other agrochemicals — common names* and ISO 765 *Pesticides considered not to require common names*. For pesticides not included in either of these standards, common names approved by the World Health Organization, the British Standards Institution, the American National Standards Institute, the Weed Science Society of America or the British Pharmacopoeia Commission are used.

The abstracts are arranged according to subject content. Whenever possible, papers will appear under the host plant (often a crop) in the section 'Economically significant plants in relation to arthropods'. When no host plant is mentioned, the paper will appear under one of the other section headings. Cross references are given where appropriate at the beginning of a section.

Abbreviations

a.i.	active ingredient	LD	lethal dose
alt.	altitude	LD 10:14	10h light and 14h dark
d.b.h.	diameter at breast height	LT	lethal time
e.c.	emulsifiable concentrate	PAGE	polyacrylamide gel electrophoresis
ED	effective dose	PIB	polyhedral inclusion body
ELISA	enzyme-linked immunosorbent assay	RH	relative humidity
EM	electron microscope	SEM	scanning electron microscope
gen. nov.	genus novum (new genus)	sp. nov.	species nova (new species)
ID	infective dose	subsp. nov.	subspecies nova (new subspecies)
IU	international unit	TEM	transmission electron microscope
KT	knockdown time	ULV	ultra-low volume
LC	lethal concentration	w.p.	wettable powder

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	Nl	Dutch
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijani	He	Hebrew	Pl	Polish
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	(White Russian)	Ia	Interlingua	Ro	Romanian
Bg	Bulgarian	In	Indonesian	Ru	Russian
Ch	Chinese	Is	Icelandic	Sh	Serbo-Croat
Cs	Czech	It	Italian		(either script)
Da	Danish	Ja	Japanese	Sk	Slovak
De	German	Ko	Korean	Sn	Slovene
Ee	Estonian	La	Latin	Sv	Swedish
En	English	Li	Lithuanian	Ta	Tajik
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- Switzerland, Eidgenössische Forschungsanstalt für Obst-, Wein- und Gartenbau, Wädenswil 2901
- Switzerland, Schweizerische Entomologische Gesellschaft 9240
- Switzerland, Station Fédérale de Recherches Agronomiques de Changins 2900
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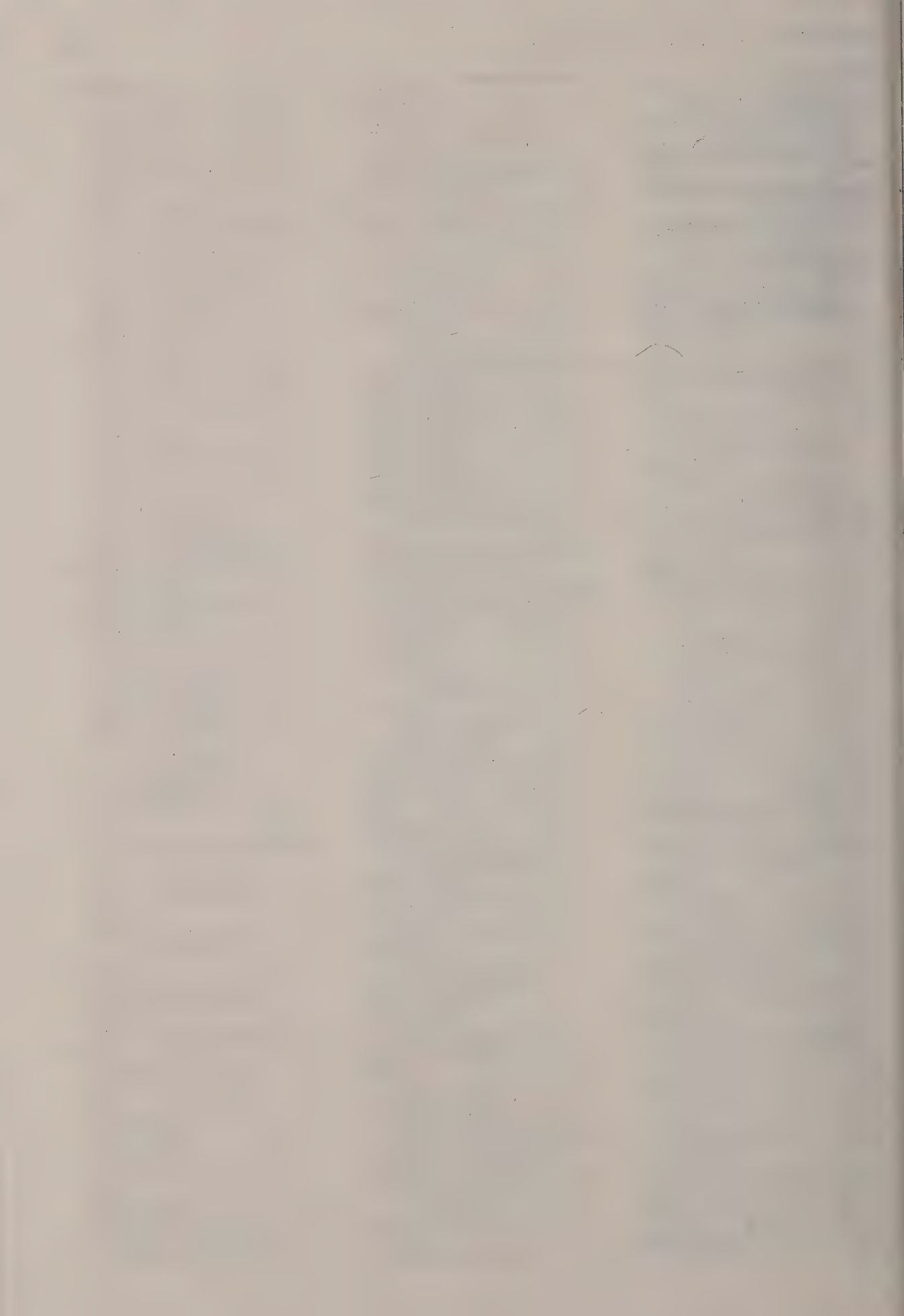
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Many other serials were scanned during 1989 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN's and publishers' addresses. See a separate page of this Index for details.

- Abstracts on Cassava
Abstracts on Field Beans
Acarologia
Archives de l'Institut Pasteur de Tunis
ACIAR Technical Reports Series, Australian Centre for International Agricultural Research
ACIAR Working Paper
ACS Symposium Series, American Chemical Society
Acta Agraria et Silvestria, Agraria
Acta Agriculturae Nucleatae Sinica
Acta Agriculturae Shanghai
Acta Agriculturae Universitatis Jilinensis
Acta Agriculturae Universitatis Pekinensis
Acta Agronómica, Universidad Nacional de Colombia
Acta Amazonica
Acta Arachnologica
Acta Biochimica et Biophysica Sinica
Acta Biologica Hungarica
Acta Botanica Fennica
Acta Botanica Neerlandica
Acta Ecologica Sinica
Acta Entomologica Bohemoslovaca
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Acta Entomologica Sinica
Acta Faunistica Entomologica Musei Nationalis Pragae
Acta Genetica Sinica
Acta Horticulturae
Acta Oecologica, Oecologia Applicata
Acta Oecologica, Oecologia Generalis
Acta Oecologica, Oecologia Plantarum
Acta Pedologica Sinica
Acta Phytopathologica et Entomologica Hungarica
Acta Phytophylactica Sinica
Acta Protozoologica
Acta Průhoniana
Acta Scientiarum Naturalium Universitatis Sunyatseni
Acta Universitatis Nicolai Copernici, Biologia
Acta Zoologica
Acta Zoologica Bulgarica
Acta Zoologica Mexicana
Acta Zoologica Sinica
Actes de l'Institut Agronomique et Vétérinaire Hassan II
Actes des Colloques Insectes Sociaux
Advances in Biotechnological Processes
Advances in Cell Culture
Advances in Virus Research
African Journal of Ecology
AgBiotech News and Information
Agfacts
Agricultura em São Paulo
Agricultura Técnica
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural Economic Report, Economic Research Service, US Department of Agriculture
Agricultural Mechanization in Asia, Africa and Latin America
Agricultural Research Journal of Kerala
Agricultural Research Review
Agricultural Research, USA
Agricultural Science Digest, India
Agricultural Systems
Agricultural University Wageningen Papers
Agriculture and Human Values
Agriculture, Ecosystems and Environment
Agro Sur
Agro-Chemicals News in Brief
Agrochémia
Agrociencias
Agrokhimiya
Agrologist
Agronomia Costarricense
Agronomia Sulriograndense
Agronomia Tropical
Agronômico
Agronomie
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Agronomy Journal
Agrotechnology Transfer
Alafua Agricultural Bulletin
Alexandria Journal of Agricultural Research
Allergy
Allgemeine Deutsche Imkerzeitung
Allgemeine Forst- und Jagdzeitung
Alon Hanotea
American Anthropologist
American Bee Journal
American Journal of Agricultural Economics
American Journal of Alternative Agriculture
American Journal of Botany
American Journal of Public Health
American Journal of Tropical Medicine and Hygiene
American Midland Naturalist
American Naturalist
American Nurseryman
American Potato Journal
American Rhododendron Society Journal
American Scientist
American Zoologist
Anais da Escola de Agronomia e Veterinária, Universidade Federal de Goiás
Anais da Sociedade Entomológica do Brasil
Anais, Reunião da Cultura do Arroz Irrigado
Analele Institutului de Cercetări pentru Cereale și Plante Tehnice, Fundulea
Anales de Biología, Biología Animal, I
Anales del Instituto Nacional de Investigaciones Agrarias, Forestal, Spain
Analyst
Analytica Chimica Acta
Analytical Biochemistry
Analytical Chemistry
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Annalen des Naturhistorischen Museums in Wien, B (Botanik und Zoologie)
Annales Agriculturae Fenniae
Annales de Gembloux
Annales de l'Institut National Agronomique El-Harrach, Algeria
Annales de l'Institut Pasteur, Virology
Annales de l'Institut Phytopathologique Benaki
Annales de la Société Entomologique de France
Annales Entomologici Fennici
Annales Société Royale Zoologique de Belgique
Annales Universitatis Mariae Curie-Skłodowska, C (Biologia)
Annales Universitatis Mariae Curie-Skłodowska, D (Medicina Veterinaria)
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Annali dell'Istituto Sperimentale per il Tabacco, Italy
Annali della Facoltà di Scienze Agrarie della Università degli Studi di Torino
Annals of Agricultural Research
Annals of Agricultural Science, Ain Shams University
Annals of Agricultural Science, Moshtohor
Annals of Applied Biology
Annals of Applied Nematology
Annals of Biology
Annals of Botany
Annals of Occupational Hygiene
Annals of the Entomological Society of America
Annals of the Phytopathological Society of Japan
Annals of Tropical Research
Annals of Warsaw Agricultural University SGGW-AR, Horticulture
Annotationes Zoologicae et Botanicae
Annual Report of the Society of Plant Protection of North Japan

- Annual Review of Entomology
 Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
 Apiacta
 Apicoltura Moderna
 Apicoltura
 Apidologie
 Apis
 APK: Ekonomika, Upravljenje
 Applied Agricultural Research
 Applied and Environmental Microbiology
 Applied Engineering in Agriculture
 Applied Entomology and Zoology
 Applied Microbiology and Biotechnology
 Arab Gulf Journal of Scientific Research, B (Agricultural and Biological Sciences)
 Arab Journal of Plant Protection
 Arboricultural Journal
 Arboriculture Fruitière
 Archiv für Phytopathologie und Pflanzenschutz
 Archiv für Protistenkunde
 Archives Internationales de Physiologie et de Biochimie
 Archives of Biochemistry and Biophysics
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 Archives of Environmental Health
 Archives of Insect Biochemistry and Physiology
 Archives of Microbiology
 Arctic and Alpine Research
 Arid Soil Research and Rehabilitation
 Arkansas Farm Research
 Arquivos do Instituto Biológico
 Arroz
 Ars Veterinaria
 Articulação Pesquisa-Extensão, Empresa Capixaba de Pesquisa Agropecuária, Empresa de Assistência Técnica e Extensão Rural do Estado do Espírito Santo
 ASAE Publication, American Society of Agricultural Engineers
 Aspects of Applied Biology
 Assiut Journal of Agricultural Sciences
 ATAC
 Atmospheric Environment
 Australian Bee Journal
 Australian Entomological Magazine
 Australian Journal of Agricultural Research
 Australian Journal of Biological Sciences
 Australian Journal of Botany
 Australian Journal of Ecology
 Australian Journal of Experimental Agriculture
 Australian Journal of Soil Research
 Australian Journal of Zoology
 AVRDC Publication, Asian Vegetable Research and Development Center
 Banana Bulletin
 Bangladesh Journal of Agriculture
 Bangladesh Journal of Zoology
 Bee World
 Behavior Genetics
 Behavioral Ecology and Sociobiology
 Behaviour
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 Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
 Berichte über Landwirtschaft
 Bijenteelt
 Biochemical Genetics
 Biochemical Journal
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 Biochemical Systematics and Ecology
 Biochemistry International
 Biochimica et Biophysica Acta
 Biochimica et Biophysica Acta, L (Lipid and lipid metabolism)
 Biochimica et Biophysica Acta, M (Biomembranes)
 Biochimie
 Biocontrol News and Information
 Bioelectromagnetics
 Biofutur
 Biokhimiya
 Biológia, Czechoslovakia
 Biological Agriculture and Horticulture
 Biological Bulletin
 Biological Chemistry Hoppe-Seyler
 Biological Conservation
 Biological Journal of the Linnean Society
 Biological Reviews
 Biological Wastes
 Biologicheskii Nauki
 Biologicheskii Zhurnal Armenii
 Biologické Práce
 Biológico
 Biologija
 Biology and Fertility of Soils
 Biology Bulletin of the Academy of Sciences of the USSR
 Biology of Behaviour
 Biology of the Cell
 Biološki Vestnik
 BioScience
 Biotechnology Advances
 Biotechnology Letters
 Biotehnologiya
 Biotropica
 Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin
 Biuletyn Warzywniczy
 Bodenkultur
 Boletim da Faculdade de Ciências Agrárias do Pará, Brazil
 Boletim da Sociedade Portuguesa de Entomologia
 Boletín Bibliográfico, INTA, Argentina
 Boletín de la Oficina Sanitaria Panamericana
 Boletín de Promecafé
 Boletín de Sanidad Vegetal, Plagas
 Boletín Divulgativo, Instituto Nacional de Investigaciones Forestales, Mexico
 Boletín Informativo, SEA
 Boletín Técnico, Empresa de Pesquisa Agropecuária de Minas Gerais Brazil
 Boletín Técnico, Instituto Nacional de Investigaciones Forestales, Mexico
 Bollettino del Laboratorio di Entomologia Agraria "Filippo Silvestri", Italy
 Bollettino del Museo Civico di Storia Naturale di Venezia
 Bollettino dell'Istituto di Entomologia della Università degli Studi di Bologna
 Bollettino della Società Entomologica Italiana
 Bollettino di Zoologia
 Borgazdaság
 Botanical Journal of the Linnean Society
 BPP (Buletinul de Protecția Plantelor)
 Bragantia
 Brasil Forestal
 Brenesia
 British Journal of Entomology and Natural History
 British Journal of Industrial Medicine
 British Reports, Translations and Theses
 BSES Bulletin, Bureau of Sugar Experiment Stations
 Buletin Penelitan Hortikultura
 Buletin Penelitan Hutan, Pusat Penelitian dan Pengembangan Hutan, Indonesia
 Buletin Perkebunan
 Buletin i Shkencave Zootehnike e Veterinare
 Buletinul de Protecția Plantelor
 Buletinul Informativ al Academiei de Științe Agricole și Silvicultură
 Buletinul Institutului Agronomic Cluj-Napoca, Agricultura
 Bulletin & Annales de la Société Royale Belge d'Entomologie
 Bulletin - British Antarctic Survey
 Bulletin Agronomique Antilles-Guyane
 Bulletin d'Ecologie
 Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Entomologie
 Bulletin de la Société Entomologique de France
 Bulletin de la Société Zoologique de France
 Bulletin des Groupements Techniques Vétérinaires
 Bulletin et Annales de la Société Royale Belge d'Entomologie
 Bulletin Mensuel de la Société Vétérinaire Pratique de France
 Bulletin OEPP
 Bulletin of Entomological Research
 Bulletin of Entomology
 Bulletin of Environmental Contamination and Toxicology
 Bulletin of Hokkaido Prefectural Agricultural Experiment Stations
 Bulletin of Mathematical Biology
 Bulletin of National Institute of Hygienic Sciences (Eisei Shikenjo Hoikoku)
 Bulletin of Taichung District Agricultural Improvement Station
 Bulletin of the British Museum (Natural History), Entomology
 Bulletin of the Chugoku National Agricultural Experiment Station (Chugoku Nogyo Shikenjo Kenkyu Hokoku)
 Bulletin of the College of Agriculture, Utsunomiya University
 Bulletin of the Entomological Society of America
 Bulletin of the Entomological Society of Canada
 Bulletin of the Faculty of Agricultural Sciences, Keszthely, Hungary
 Bulletin of the Faculty of Agriculture, Miyazaki University
 Bulletin of the Faculty of Agriculture, Saga University
 Bulletin of the Faculty of Agriculture, Tottori University
 Bulletin of the Faculty of Agriculture, Yamaguchi University
 Bulletin of the Forestry and Forest Products Research Institute, Japan
 Bulletin of the Fruit Tree Research Station, E (Akitsu), Japan
 Bulletin of the Hiroshima Prefectural Agricultural Experiment Station
 Bulletin of the Institute of Zoology, Academia Sinica, Taiwan
 Bulletin of the National Institute of Agro-Environmental Sciences, Japan (Nogyo Kankyo Gijutsu Kenkyusho Hokoku)
 Bulletin of the Pan American Health Organization
 Bulletin of the Saitama Horticultural Experiment Station
 Bulletin of the Shimane Agricultural Experiment Station

- Bulletin of the Tohoku National Agricultural Experiment Station, Japan (Tohoku Nogyo Shikenjo Kenkyu Hokoku)
 Bulletin of the Torrey Botanical Club
 Bulletin of the Vegetable and Ornamental Crops Research Station, C (Kurume)
 Bulletin of the Veterinary Institute in Puławy
 Bulletin of the World Health Organization
 Bulletin of the Yamagata Agricultural Experiment Station
 Bulletin of Zoological Nomenclature
 Bulletin SROP
 Bulletin Technique Apicole
 Bulletin, Agricultural and Forestry Experiment Station, West Virginia University
 Bulletin, Agricultural Experiment Station, Virginia Polytechnic Institute and State University
 Bulletin, Connecticut Agricultural Experiment Station
 Bunseki Kagaku
 Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody, Otdel Biologicheskii
 Café, Cacao, Thé
 California Agriculture
 California Avocado Society Yearbook
 California Fish and Game
 Canadian Agricultural Insect Pest Review
 Canadian Beekeeping
 Canadian Entomologist
 Canadian Journal of Botany
 Canadian Journal of Chemistry
 Canadian Journal of Forest Research
 Canadian Journal of Microbiology
 Canadian Journal of Plant Pathology
 Canadian Journal of Plant Science
 Canadian Journal of Remote Sensing
 Canadian Journal of Soil Science
 Canadian Journal of Zoology
 Carcinogenesis
 Caryologia
 Časopis Moravského Muzea, Vědy Přírodní
 Catalogue of Palaeartic Diptera
 CDR Project Paper, Centre for Development Research, Denmark
 Cecidologia Internationale
 Ceiba
 Cell
 Cell and Tissue Research
 Cell Biochemistry and Function
 Cell Biology International Reports
 Cell Differentiation
 Cellular and Molecular Biology
 Centro Agrícola
 Cercetări Agronomice în Moldova
 Cereal Research Communications
 Československá Hygiena
 Chemical Communications
 Chemosphere
 China Cottons
 Chinese Journal of Biological Control
 Chinese Journal of Entomology
 Chinese Journal of Virology
 Chmelafstvi
 Chromatographia
 Chromosoma
 Chronobiology International
 Cicindela
 Ciencia Forestal
 Ciencia y Técnica en la Agricultura, Arroz
 Ciencia y Técnica en la Agricultura, Café y Cacao
 Ciencia y Técnica en la Agricultura, Protección de Plantas
 Ciencias de la Agricultura
 Científica
 Circular Técnica, Centro Nacional de Pesquisa de Arroz e Feijão, EMBRAPA, Brazil
 Circular Técnica, Centro Nacional de Pesquisa de Coco, EMBRAPA, Brazil
 Citograph
 Citrus and Subtropical Fruit Journal
 Cocoa Growers' Bulletin
 Coleopterists' Bulletin
 Colloques de l'INRA
 Comments on Agriculture and Food Chemistry
 Comunicado Técnico, Empresa de Pesquisa Agropecuária do Estado do Rio de Janeiro
 Communications in Soil Science and Plant Analysis
 Comparative Biochemistry and Physiology, A (Comparative Physiology)
 Comparative Biochemistry and Physiology, B (Comparative Biochemistry)
 Comparative Biochemistry and Physiology, C (Comparative Pharmacology and Toxicology)
 Comparative Physiology and Ecology
 Comptes Rendus de l'Académie d'Agriculture de France
 Comptes Rendus de l'Académie des Sciences, III (Sciences de la Vie)
 Comptes Rendus des Essais, UNILEC, Union Nationale Interprofessionnelle des Légumes de Conserve, France
 Computers and Electronics in Agriculture
 Comunicado Técnico, Centro Nacional de Pesquisa de Soja
 Comunicado Técnico, Empresa Capixaba de Pesquisa Agropecuária, EMCAPA, Brazil
 Comunicado Técnico, Empresa de Pesquisa Agropecuária do Ceará, Brazil
 Comunicado Técnico, Empresa de Pesquisa Agropecuária do Estado do Rio de Janeiro, EMBRAPA, Brazil
 Contributions from Shanghai Institute of Entomology
 Contributions of the American Entomological Institute
 Coton et Fibres Tropicales
 CRC Critical Reviews in Biotechnology
 CRC Critical Reviews in Microbiology
 CRC handbook of natural pesticides
 Crop Protection
 Crop Research, India
 Crop Science
 Cruciferae Newsletter
 Cryobiology
 Cuaderno de Actualización Técnica, Estación Experimental Agropecuaria Manfredi
 Cultivar 2000
 Current Microbiology
 Current Research, University of Agricultural Sciences, Bangalore
 Current Research
 Current Research Reporter, Mahatma Phule Agricultural University
 Current Research, University of Agricultural Sciences, Bangalore
 Current Science, India
 Cytobios
 Cytologia
 Dansk Frøavl
 Dansk Skovforenings Tidsskrift
 Decheniana
 Deciduous Fruit Grower
 Defense des Vegetaux
 Delaware Agricultural Experiment Station Bulletin
 Deutsche Entomologische Zeitschrift
 Deutsche Lebensmittel-Rundschau
 Deutsche Medizinische Wochenschrift
 Deutsche Molkerei-Zeitung
 Deutscher Gartenbau
 Developmental and Comparative Immunology
 Developmental Biology
 Developmental Genetics
 Difesa delle Piante
 Dirasat
 Disasters
 Dissertation Abstracts International, A (Humanities and Social Sciences)
 Dissertation Abstracts International, B (Sciences and Engineering)
 DLG-Mitteilungen
 Documentos, Centro Nacional de Pesquisa de Arroz e Feijão, EMBRAPA
 Documentos, Centro Nacional de Pesquisa de Gado de Corte, EMBRAPA
 Documentos, Centro Nacional de Pesquisa de Soja, EMBRAPA
 Documentos, Empresa Capixaba de Pesquisa Agropecuária, EMCAPA, Brazil
 Doga
 Doga, Türk Tarım ve Ormancılık Dergisi
 Doga, Türk Zooloji Dergisi
 Doklady Biochemistry
 Doklady Biological Sciences
 Doklady Vsesoyuznoi Akademii Sel'skokhozyaystvennykh Nauk
 Doklady Vsesoyuznoi Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaystvennykh Nauk imeni V. I. Lenina
 Down to Earth
 Drevársky Výskum
 East African Agricultural and Forestry Journal
 Ecología
 Ecological Bulletins
 Ecological Entomology
 Ecological Modelling
 Ecological Monographs
 Ecology, USA
 Economic Botany
 Ecotoxicology and Environmental Safety
 Edisi Khusus Penelitian Tandaman Reinpah dan Obat
 Ege Üniversitesi Ziraat Fakültesi Dergisi
 Egyptian Journal of Dairy Science
 Ekologia Polska
 Èkologiya, USSR
 Elytron
 EMBO Journal
 EMPA-MT Informa, Empresa de Pesquisa Agropecuária do Estado de Mato Grosso

- Energy in World Agriculture
 Entomologia Experimentalis et Applicata
 Entomologia Generalis
 Entomologia Hellenica
 Entomologica
 Entomologica Scandinavica
 Entomological News
 Entomological Research Bulletin, Korea Republic
 Entomologicheskoe Obozrenie
 Entomologie et Phytopathologie Appliquées
 Entomologische Berichten
 Entomologische Blätter
 Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg
 Entomologische Nachrichten und Berichte
 Entomologisk Tidskrift
 Entomologiske Meddelelser
 Entomologist
 Entomologist's Gazette
 Entomologist's Monthly Magazine
 Entomology Circular, Division of Plant Industry, Florida Department of Agriculture & Consumer Services
 Entomon
 Entomophaga
 Entomotaxonomia
 Environment and Ecology
 Environmental Conservation
 Environmental Entomology
 Environmental Pollution
 Environmental Research
 Environmental Science and Technology
 Environmental Technology Letters
 Environmental Toxicology and Chemistry
 Eos, Spain
 EPPO Bulletin
 EPPO Publications, B
 EPPO Publications, C
 Erdészeti Kutatások
 Esakia
 Estuaries
 Ethiopian Journal of Agricultural Sciences
 Ethology
 Etlik Veteriner Mikrobiyoloji Enstitüsü Dergisi
 Euphytica
 European Directory of Agrochemical Products
 European Journal of Biochemistry
 European Journal of Respiratory Diseases
 Evolution
 Experientia
 Experimental Agriculture
 Experimental and Applied Acarology
 Experimental Biology
 Experimental Gerontology
 Extension Bulletin, ASPAC Food and Fertilizer Technology Center for the Asian and Pacific Region, Taiwan
 Extension Bulletin, Cooperative Extension, College of Agriculture, Washington State University
 Edot overntomologicheskoe Obozrenie
 FAO Agricultural Services Bulletin
 FAO Plant Production and Protection Paper
 FAO Plant Protection Bulletin
 Far Eastern Agriculture
 Farming in South Africa
 Fauna Norvegica, B
 Fauna of New Zealand
 Fauna of Saudi Arabia
 FEBS Letters
 FEMS Microbiology Letters
 Feuille d'Extension
 Field Crops Research
 Fitopatologia Brasileira
 Fitoterapia
 Flavour and Fragrance Journal
 Florida Entomologist
 Folia Biologica, Poland
 Folia Entomologica Hungarica
 Folia Entomológica Mexicana
 Folia Zoologica
 Foliage Digest
 FONAIAP Divulga
 Food Technology
 Forensic Science International
 Forest Ecology and Management
 Forest Research Report, Forest Entomology Unit, Forest Department, Sarawak
 Forest Science
 Forest Science and Technology
 Forestry
 Forestry Chronicle
 Forestry Information Pamphlet, Forestry Division, Solomon Islands
 Forstwissenschaftliches Centralblatt
 Fragmenta Entomologica
 Fragmenta Faunistica
 Fragmenta Herbológica Yugoslavica
 Fresenius' Zeitschrift für Analytische Chemie
 FRI Bulletin, Forest Research Institute, New Zealand
 Frugtavleren
 Fruit Science Reports
 Fruit Varieties Journal
 Fruits
 Fruitteelt
 FRUT-Revista de Fruticultura
 Fujian Agricultural Science and Technology
 Fulls d'Informació Tècnica.
 Functional Ecology
 Fundamental and Applied Toxicology
 Gaceta Agronómica
 Garden, UK
 Gärtnermeister
 Gartneryrket
 Gb + Gw
 Gene
 General and Applied Entomology
 General and Comparative Endocrinology
 General Technical Report, Intermountain Research Station, USDA Forest Service
 Genetic Maps
 Genetica
 Genetika i Selektsiya
 Genetika, USSR
 Genome
 Geörgiké Ereuna
 German Democratic Republic Patent
 Gesunde Pflanzen
 Gewasbescherming
 Giessener Beiträge zur Entwicklungsforschung, I (Symposien)
 Giornale Italiano di Entomologia
 Gleanings in Bee Culture
 Gorsko Stopanstvo Gorska Promishlenost
 Grøn Viden, Havebrug
 Grøn Viden, Landbrug
 Graellsia
 Grass and Forage Science
 Grassland of China
 Grassroots Development
 Great Basin Naturalist
 Great Basin Naturalist Memoirs
 Great Lakes Entomologist
 Groenten en Fruit
 Guangdong Agricultural Science
 Gujarat Agricultural University Research Journal
 Handbooks for the identification of British Insects
 Harvest
 Haryana Agricultural University Journal of Research
 Haryana Journal of Horticultural Sciences
 Hassadeh
 Helsingin Yliopiston Ympäristönsuojelun Laitoksen Julkaisuja
 Herba Hungarica
 Hercynia
 Hereditas, Sweden
 Hilgardia
 Hojas Divulgadoras, Ministerio de Agricultura, Pesca y Alimentación, Spain
 Holztechnologie
 Honeybee Science
 HortScience
 Ichnews
 IDIA
 Illinois Research
 In Vitro Cellular & Developmental Biology
 Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland
 Indian Agriculturist
 Indian Cocoa, Arecanut & Spices Journal
 Indian Coffee
 Indian Farming
 Indian Forester
 Indian Horticulture
 Indian Institute of Horticultural Research Technical Bulletin
 Indian Journal of Agricultural Chemistry
 Indian Journal of Agricultural Research
 Indian Journal of Agricultural Sciences
 Indian Journal of Botany
 Indian Journal of Ecology
 Indian Journal of Entomology
 Indian Journal of Experimental Biology
 Indian Journal of Forestry
 Indian Journal of Hill Farming
 Indian Journal of Horticulture
 Indian Journal of Mycology and Plant Pathology
 Indian Journal of Natural Rubber Research
 Indian Journal of Parasitology

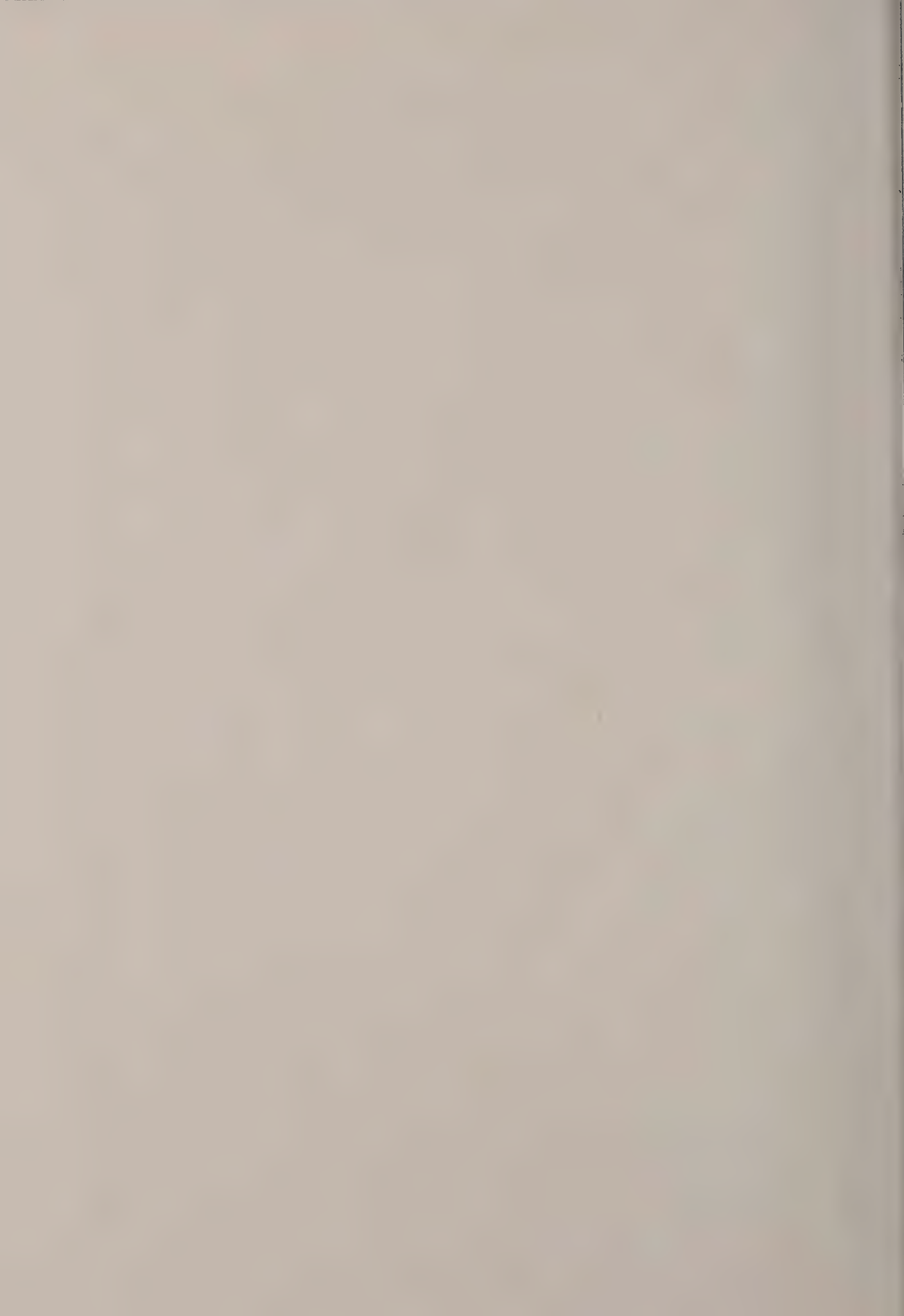
- Indian Journal of Plant Pathology
 Indian Journal of Plant Physiology
 Indian Journal of Plant Protection
 Indian Journal of Pulses Research
 Indian Phytopathology
 Indonesian Agricultural Research & Development Journal
 Industria del Latte
 Industrie Alimentari
 Information Bulletin, Fruit and Fruit Technology Research Institute
 Information Circular, South Pacific Commission
 Informator o Wynikach Badań Naukowych Zakonczonych, 5 (Ochrona Roślin)
 Informatore Agrario
 Informatore Fitopatologico
 Informe Agropecuario
 Informe de Investigacion, Division de Ciencias Agropecuarias y Maritimas, Instituto Tecnologico y de Estudios Superiores de Monterrey, Mexico
 Infos, Centre Technique Interprofessionnel des Fruits et Légumes, France
 Insect Biochemistry
 Insect Knowledge
 Insect Science and its Application
 Insecta Matsumurana
 Insectes Sociaux
 International Biodeterioration
 International Chickpea Newsletter
 International Industrial Biotechnology
 International Journal for Vitamin and Nutrition Research
 International Journal of Acarology
 International Journal of Biometeorology
 International Journal of Environmental Analytical Chemistry
 International Journal of Environmental Studies
 International Journal of Insect Morphology and Embryology
 International Journal of Invertebrate Reproduction and Development
 International Journal of Peptide and Protein Research
 International Journal of Radiation Applications and Instrumentation, A (Applied Radiation and Isotopes)
 International Journal of Systematic Bacteriology
 International Journal of Tropical Agriculture
 International Pest Control
 International Rice Commission Newsletter
 International Rice Research Newsletter
 Internationale Revue der gesamten Hydrobiologie
 Internationale Zeitschrift der Landwirtschaft
 Invertebrate Taxonomy
 Investigação Agrária
 Investigaciones Forestales, Instituto Nacional de los Recursos Naturales Renovables y del Ambiente, Colombia
 IPM Practitioner
 Iranian Journal of Agricultural Sciences
 Iraqi Journal of Agricultural Sciences, 'ZANCO'
 Irish Naturalists' Journal
 IRRI Research Paper Series, International Rice Research Institute
 ISI Atlas of Science, Animal and Plant Sciences
 Israel Journal of Medical Sciences
 Italia Agricola
 Italia Forestale e Montana
 Izvestiya Akademii Nauk Kazakhskot SSR, Biologicheskaya
 Izvestiya Akademii Nauk Tadzhikskot SSR, Biologicheskikh Nauk
 Izvestiya Akademii Nauk Turkmenkot SSR, Biologicheskikh Nauk
 Izvestiya Vysshikh Uchebnykh Zavedenii, Lesnoi Zhurnal
 Japan Pesticide Information
 Japanese Journal of Applied Entomology and Zoology
 Japanese Journal of Genetics
 Japanese Journal of Nematology
 Japanese Journal of Sanitary Zoology
 Japanese Journal of Veterinary Science
 JAPCA
 JARQ (Japan Agricultural Research Quarterly)
 Journal für Ornithologie
 Journal of Advanced Zoology
 Journal of Agricultural and Food Chemistry
 Journal of Agricultural Entomology
 Journal of Agricultural Research of China
 Journal of Agricultural Research, Pakistan
 Journal of Agricultural Science, Tokyo Nogyo Daigaku
 Journal of Agricultural Science, UK
 Journal of Agriculture and Water Resources Research, Plant Production
 Journal of Agriculture of the University of Puerto Rico
 Journal of Agriculture, Western Australia
 Journal of Agronomy and Crop Science
 Journal of Allergy and Clinical Immunology
 Journal of Analytical Chemistry of the USSR
 Journal of Animal Ecology
 Journal of Antibiotics
 Journal of Apicultural Research
 Journal of Applied Ecology
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 Journal of Applied Seed Production
 Journal of Applied Toxicology
 Journal of Aquatic Plant Management
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 Journal of Arboriculture
 Journal of Arid Environments
 Journal of Bacteriology
 Journal of Bamboo Research
 Journal of Bengal Natural History Society
 Journal of Biogeography
 Journal of Biological Chemistry
 Journal of Cell Biology
 Journal of Cell Science
 Journal of Chemical Ecology
 Journal of Chromatographic Science
 Journal of Chromatography
 Journal of Coffee Research
 Journal of Comparative Neurology
 Journal of Comparative Physiology, A (Sensory, Neural, and Behavioral Physiology)
 Journal of Comparative Physiology, B (Biochemical, Systematic and Environmental Physiology)
 Journal of Contaminant Hydrology
 Journal of Dairy Science
 Journal of Ecology, China
 Journal of Ecology, UK
 Journal of Economic Entomology
 Journal of Entomological Research
 Journal of Entomological Science
 Journal of Environmental Biology
 Journal of Environmental Health
 Journal of Environmental Quality
 Journal of Environmental Science and Health, A (Environmental Science and Engineering)
 Journal of Environmental Science and Health, B (Pesticides, Food Contaminants, and Agricultural Wastes)
 Journal of Evolutionary Biology
 Journal of Experimental Biology
 Journal of Experimental Botany
 Journal of Experimental Zoology
 Journal of Food Science and Technology, India
 Journal of Fujian Agricultural College
 Journal of General Microbiology
 Journal of General Virology
 Journal of Genetics
 Journal of Heredity
 Journal of High Resolution Chromatography and Chromatography Communications
 Journal of Industrial Microbiology
 Journal of Insect Behavior
 Journal of Insect Morphology & Embryology
 Journal of Insect Physiology
 Journal of Insect Science
 Journal of Interdisciplinary Cycle Research
 Journal of Invertebrate Pathology
 Journal of Iowa Academy of Science
 Journal of Japanese Society of Grassland Science
 Journal of Jiangsu Agricultural College
 Journal of Labelled Compounds and Radiopharmaceuticals
 Journal of Liquid Chromatography
 Journal of Maharashtra Agricultural Universities
 Journal of Mathematical Biology
 Journal of Molecular Evolution
 Journal of Morphology
 Journal of Muscle Research and Cell Motility
 Journal of Nanjing Agricultural University (Nanjing Nongye Daxue Xuebao)
 Journal of Natural History
 Journal of Natural Products
 Journal of Nematology
 Journal of Neurochemistry
 Journal of Neuroscience
 Journal of North-East Forestry University, China
 Journal of Nuclear Agriculture and Biology
 Journal of Nutrition
 Journal of Occupational Medicine
 Journal of Oilseeds Research
 Journal of Organic Chemistry
 Journal of Pesticide Science
 Journal of Physiology
 Journal of Phytopathology
 Journal of Plant Nutrition
 Journal of Plant Protection in the Tropics
 Journal of Plantation Crops
 Journal of Potassium Research
 Journal of Production Agriculture
 Journal of Range Management
 Journal of Research APAU
 Journal of Research on the Lepidoptera
 Journal of Research, Assam Agricultural University
 Journal of Research, Punjab Agricultural University
 Journal of Rural Development, Korea Republic

- Journal of Scientific and Industrial Research
 Journal of Shenyang Agricultural University
 Journal of Soil Conservation, New South Wales
 Journal of South China Agricultural University
 Journal of Stored Products Research
 Journal of Taiwan Museum
 Journal of the Agricultural Association of China
 Journal of the Agricultural Society of Trinidad and Tobago
 Journal of the American Mosquito Control Association
 Journal of the Andaman Science Association
 Journal of the Association of Official Analytical Chemists
 Journal of the Australian Entomological Society
 Journal of the Australian Institute of Agricultural Science
 Journal of the Bombay Natural History Society
 Journal of the Egyptian Society of Parasitology
 Journal of the Entomological Society of British Columbia
 Journal of the Entomological Society of Southern Africa
 Journal of the Faculty of Agriculture, Kyushu University
 Journal of the Fujian Agricultural College
 Journal of the Indian Academy of Wood Science
 Journal of the Indian Institute of Science
 Journal of the Indian Society of Soil Science
 Journal of the Japanese Forestry Society
 Journal of the Japanese Society of Agricultural Machinery
 Journal of the Kansas Entomological Society
 Journal of the Lepidopterists' Society, USA
 Journal of the National Research Council of Thailand
 Journal of the National Science Council of Sri Lanka
 Journal of the New York Entomological Society
 Journal of the Northeast Forestry University, China
 Journal of the Rio Grande Valley Horticultural Society
 Journal of the Science Society of Thailand
 Journal of the Sports Turf Research Institute
 Journal of Theoretical Biology
 Journal of Thermal Biology
 Journal of Toxicology, Toxin Reviews
 Journal of Tropical Ecology
 Journal of Virology
 Journal of Wildlife Management
 Journal of Zoology
 Journal, Association of Official Analytical Chemists, USA
 Jugoslovensko Vocarstvo
 Kagawa Daigaku Nogakubu Gakuyutu Hokoku (Technical Bulletin of the Faculty of Agriculture, Kagawa University)
 Kanpur University Research Journal (Science)
 Kasetsart Journal, Natural Sciences
 Kertészeti Egyetem Közleményei
 Khimiya v Sel'skom Khozyaistve
 Khlopok
 Klinkii
 Klucze do Oznaczenia Owadów Polski
 Koedoe
 Koleopterologische Rundschau
 Kontyú
 Korean Journal of Applied Entomology
 Korean Journal of Crop Science
 Korean Journal of Entomology
 Korean Journal of Plant Pathology
 Korean Journal of Plant Protection
 Köy Hizmetleri Tokat Araştırma Enstitüsü Müdürlüğü Yayınları, Turkey
 Kurume University Journal
 Laboratory Animal Science
 Lambillionea
 Landwirtschaft Schweiz
 Landwirtschaftliches Jahrbuch der Schweiz
 Laporan, Balai Penelitian Hutan, Indonesia
 Laporan, Lembaga Penelitian Hasil Hutan, Indonesia
 Laranja
 Las Polski
 Lavoura Arrozeira
 Leaflet, Forest Insect & Disease
 Legume Research
 Lens Newsletter
 Lesnoe Khozyaistvo
 Lesovedenie
 Letters in Applied Microbiology
 Liberation Bulletin
 Life Sciences
 Lindleyana
 Lipids
 Listy Cukrarnicke
 Louisiana Agriculture
 Lucrări Ştiinţifice, Institutul Agronomic Timişoara, Agronomie
 Madoqua
 Madras Agricultural Journal
 Magyar Allatorvosok Lapja
 Maize Genetics Cooperation Newsletter
 Malayan Nature Journal
 Malaysian Forester
 MAPPS Newsletter
 Marine Pollution Bulletin
 Material and Organismen
 Maydica
 Mededeling, Instituut voor Rationele Suikerproductie, Netherlands
 Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
 Medycyna Weterynaryjna
 Memoire della Società Entomologica Italiana
 Memoirs of the Entomological Society of Canada
 Memoirs of the Faculty of Agriculture, Kinki University
 Memorabilia Zoologica
 Memoranda Societatis pro Fauna et Flora Fennica
 Menara Perkebunan
 Mesopotamia Journal of Agriculture
 Metodiky pro Závádění Výsledků Výzkumu do Zemědělské Praxe
 Mezinárodní Zemědělský Časopis
 Microbiological Sciences
 Microbiology, USA
 MIRCEN Journal of Applied Microbiology and Biotechnology
 Miscellaneous Publication of the National Institute of Agro-Environmental Sciences
 Miscellaneous Publication, Agricultural Research Service, USDA
 Miscellaneous Publications of the Entomological Society of America
 Mitteilungen aus dem Hamburgischen Zoologischen Museum und Institut
 Mitteilungen aus dem Zoologischen Museum in Berlin
 Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem
 Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie
 Mitteilungen der Entomologischen Gesellschaft Basel
 Mitteilungen der Schweizerischen Entomologischen Gesellschaft
 Mitteilungen für die Schweizerische Landwirtschaft
 Mokuzaï Gakkaishi (Journal of the Japan Wood Research Society)
 Molecular and Cellular Biology
 Molecular and Cellular Endocrinology
 Molecular and General Genetics
 Molecular Microbiology
 Molecular Plant-Microbe Interactions
 Monografías del Instituto de Biología, Universidad Nacional Autónoma de México
 Monograph, British Crop Protection Council
 Moscow University Biological Sciences Bulletin
 Mosonmagyaróvári Mezőgazdaságtudományi Kar Közleményei
 Moths of Borneo
 Mulga Research Centre Journal
 Mushroom Journal for the Tropics
 Mutation Research
 Mycologia
 Mycological Research
 Mycologist
 Mycopathologia
 Mycoses
 Myforest
 Mysore Journal of Agricultural Sciences
 Nachrichtenblatt des Deutschen Pflanzenschutzdienstes
 Nachrichtenblatt für den Pflanzenschutz in der DDR
 Narendra Deva Journal of Agricultural Research
 Naše Liečivé Rastliny
 National Academy Science Letters, India
 Natural Enemies of Insects
 Naturalia
 Naturaliste Canadien
 Nature, UK
 Naturwissenschaften
 Nauchnye Doklady Vysshet Shkoly, Biologicheskie Nauki, Moscow
 Nederlands Bosbouw tijdschrift
 Nematologia Brasileira
 Netherlands Journal of Plant Pathology
 Netherlands Journal of Zoology
 Neue Bienenzucht
 Neuroscience Letters
 Neurotoxicology and Teratology
 New Scientist
 New York's Food and Life Sciences Quarterly
 New Zealand Journal of Crop and Horticultural Science
 New Zealand Journal of Ecology
 New Zealand Journal of Experimental Agriculture
 New Zealand Journal of Zoology
 Newsletter, Central Sericultural Research and Training Institute Mysore
 Newsletter, IBPGR Regional Committee for Southeast Asia
 Nigerian Journal of Entomology
 Nippon Nogeikagaku Kaishi
 Nogyo Kenkyu Senta Kenkyu Hokoku
 Nordisk Jordbrugsforskning
 Norsk Landbruk
 North Carolina Flower Growers' Bulletin
 North Dakota Farm Research
 Northern Journal of Applied Forestry
 Northwest Environmental Journal

- Nota Técnica, Escuela Nacional de Ciencias Forestales, Honduras
 Notulae Entomologicae
 Nouvelle Revue d'Entomologie
 Növényvédelem
 Nucleic Acids Research
 Nucleus, India
 Obst und Garten
 Obstbau Weinbau
 Occasional Paper, Forestry Commission, UK
 Oecologia
 Oikos
 Oléagineux
 Olivæ
 Orchardist of New Zealand
 Oryza
 Overseas Research Publication Series, Overseas Development Administration, UK
 Pacific Insects Monographs
 Pacific Northwest Extension Publication
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 Pakistan Agriculture
 Pakistan Cottons
 Pakistan Journal of Scientific and Industrial Research
 Pakistan Journal of Zoology
 Pamiętnik Puławski
 Pan-Pacific Entomologist
 Paper, American Society of Agricultural Engineers
 Parasitica
 Parasitology Research
 PE&RS (Photogrammetric Engineering & Remote Sensing)
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 Pesquisa em Andamento, Empresa Capixaba de Pesquisa Agropecuária, EMCAPA, Brazil
 Pesquisa em Andamento, Empresa Catarinense de Pesquisa Agropecuária, EMPASC, Brazil
 Pesticide Biochemistry and Physiology
 Pesticide Science
 Pesticide Usage Survey Report, ADAS, UK
 Pesticides
 Pflanzenschutz
 Pflanzenschutz-Nachrichten Bayer
 Pflanzenschutzberichte
 Pflügers Archiv
 Pharmacology & Toxicology
 Pharmazie
 Philippine Agriculturist
 Philippine Entomologist
 Philippine Journal of Crop Science
 Philippine Journal of Science
 Philosophical Transactions of the Royal Society of London, B (Biological Sciences)
 Physiological and Molecular Plant Pathology
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 Phytoparasitica
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 Phytoprotection
 PKV Research Journal
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 Plant Breeding
 Plant Cell Reports
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 Plant Health Information Sheet, Forestry Commission, UK
 Plant Pathology
 Plant Pathology Newsletter
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 Plant Protection
 Plant Protection Bulletin, India
 Plant Protection Bulletin, Taiwan
 Plant Protection News, South Africa
 Plant Protection Quarterly
 Planta
 Planter
 PLANTI News
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 Polnohospodárstvo
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 Probleme de Protecția Plantelor
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 Proceedings of the Florida State Horticultural Society
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 Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen, Series C: Biological and Medical Sciences
 Proceedings of the National Academy of Sciences of the United States of America
 Proceedings, Annual Conference, Agronomy Society of New Zealand
 Proceedings, Soil and Crop Science Society of Florida
 Proceedings, Virginia Turfgrass Conference and Trade Show
 Progrès Agricole et Viticole
 Progress in Clinical and Biological Research
 Progress Report, Texas Agricultural Experiment Station
 Progressive Horticulture
 Psyche
 Pszczelnicze Zeszyty Naukowe
 Publicación Técnica, Estación Experimental Agropecuaria Parana-Entre Rios
 Publicación Técnica, Instituto Nacional de Tecnología Agropecuaria, Estación Experimental Agropecuaria Anguil
 Publication, Agriculture Canada
 Publication, International Development Research Centre, Canada
 Punjab Vegetable Grower
 Pyrethrum Post
 Quaestiones Entomologicae
 Quarterly Journal of Chinese Forestry
 Quarterly Newsletter, Asia and Pacific Plant Protection Commission, FAO, Thailand
 Quarterly Review of Biology
 Queensland Agricultural Journal
 Queensland Journal of Agricultural and Animal Sciences
 Queensland Naturalist
 Rachis, Barley and Wheat Newsletter
 Rangelands
 Rapport, Norsk Institutt for Skogforskning
 Rapport, Rijksinstituut voor Onderzoek in de Bos- en Landschap-sbouw 'De Dorschkamp', Wageningen
 Rastitel'nye Resursy
 Records of the Zoological Survey of India
 Redia
 Reference Book of the Ministry of Agriculture, Fisheries and Food, UK
 Report of the Taiwan Sugar Research Institute
 Report, Cucurbit Genetics Cooperative, USA
 Report, Tea Scientific Department, United Planters' Association of Southern India
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 Research Bulletin of the Plant Protection Service, Japan
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 Research Extension Series, Hawaii Institute of Tropical Agriculture and Human Resources
 Research Information Note, Forestry Commission, UK
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 Research Paper, Northeastern Forest Experiment Station, USDA Forest Service
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- Research Paper, Southeastern Forest Experiment Station, USDA Forest Service
 Research Report of the Institute of Forest Genetics, Korea Republic
 Research Report, Investigación Forestal, Cartón de Colombia
 Research Report, Mississippi Agricultural and Forestry Experiment Station
 Research Report/Occasional Paper, Department of Economics, University of Newcastle, Australia
 Research Reports of the Forest Research Institute, Korea Republic
 Research Reports of the Kochi University, Agricultural Science
 Research Review Series, University of Agricultural Sciences, Bangalore, India
 Researches on Population Ecology
 Résumé des Recherches, Station de Recherches de Saint-Jean-sur-Richelieu, Québec
 Resúmenes Analíticos sobre Pastos Tropicales
 Reviews of Environmental Contamination and Toxicology
 Revista Agronómica de Manfredi
 Revista Argentina de Economía Agraria
 Revista Brasileira de Entomologia
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 Revue Française d'Entomologie
 Revue Suisse d'Agriculture
 Revue Suisse de Viticulture, d'Arboriculture et d'Horticulture
 Revue Suisse de Zoologie
 Rice Research Newsletter, CRRRI
 Rivista di Frutticoltura e di Ortofloricoltura
 Roczniki Nauk Rolniczych, E (Ochrona Roślin)
 Roczniki Państwowego Zakładu Higieny
 Root Crops Digest
 Rostlinná Výroba
 Roux's Archives of Developmental Biology
 Sadovodstvo i Vinogradarstvo
 Samaru Journal of Agricultural Research
 Sborník Jihočeského Muzea v Českých Budějovicích, Přírodní Vědy
 Sbornik Nauchnykh Trudov po Prikladnoi Botanike, Genetike i Seleksiji
 Sborník UVTIZ, Ochrana Rostlin
 Scandinavian Journal of Work, Environment and Health
 Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten, A (Angewandte Wissenschaft), German Federal Republic
 Schweizerische Bienen-Zeitung
 Schweizerische Zeitschrift für Obst- und Weinbau
 Science Bulletin of the Faculty of Agriculture, Kyushu University
 Science of Sericulture
 Science of the Total Environment
 Science Progress
 Science, USA
 Scientia Agricultura Sinica
 Scientia Horticulturae
 Scientia Silvae Sinicae
 Scientific American
 Scientific Publication, Freshwater Biological Association
 Scientific Reports of the Kyoto Prefectural University, Agriculture
 Scienza Veterinaria e Biologia Animale
 Scripta Facultatis Scientiarum Naturalium Universitatis Purkynianae Brunensis
 Seed Research
 Seed Science and Technology
 Seiva
 Sel'skokhozyaistvennaya Biologiya
 Selskostopanska Nauka
 Senckenbergiana Biologica
 Serie Técnica, Estación Experimental Agropecuaria Paraná, Argentina
 Shanghai Agricultural Science and Technology
 Shanxi Agricultural Science
 Shell Agriculture
 SHILAP, Revista de Lepidopterología
 Shire Natural History Series
 SIALL, Colombia
 Silvaecultura Tropica et Subtropica
 Singapore Journal of Primary Industries
 Skogen
 Smithsonian Contributions to Zoology
 Sociobiology
 Soil & Tillage Research
 Soil Biology & Biochemistry
 Soil Science Society of America Journal
 Sorghum Newsletter
 South African Bee Journal
 South African Forestry Journal
 South African Journal for Enology and Viticulture
 South African Journal of Plant and Soil
 South Indian Horticulture
 Southern Journal of Agricultural Economics
 Southern Medical Journal
 Southwestern Entomologist
 Southwestern Naturalist
 Soviet Agricultural Sciences
 Soviet Journal of Ecology
 Soviet Meteorology and Hydrology
 Special Bulletin, Mississippi Agricultural and Forestry Experiment Station
 Special Publication, Georgia Agricultural Experiment Stations
 Special Publication, Illinois Natural History Survey
 Sphecos
 Sri Lanka Journal of Tea Science
 Starch - Stärke
 Suid-Afrikaanse Tydskrif vir Suiwelkunde
 Summa Phytopathologica
 Sveriges Utsädesförenings Tidskrift
 Sydowia
 Sylwan
 Synthesis — Journal of Synthetic Organic Chemistry
 Systematic and Applied Microbiology
 Systematic Entomology
 Taiwan Agriculture Bimonthly
 Taiwan Sugar
 TARO Newsletter
 Taxon
 Tea
 Technical Bulletin, Agricultural Research Institute, Cyprus
 Technical Bulletin, Indian Institute of Horticultural Research
 Technical Bulletin, Mississippi Agricultural and Forestry Experiment Station
 Technical Bulletin, Oklahoma Agricultural Experiment Station
 Technical Bulletin, US Department of Agriculture
 Technical Cooperation Programme
 Technical Document, Asia and Pacific Plant Protection Commission, FAO
 Technical Note, DANIDA Forest Seed Centre, Denmark
 Technical Paper, Division of Entomology, CSIRO, Australia
 Tecnica Agricola, Italy
 Tehquique
 Terra e Sole
 Tetrahedron
 Tetrahedron Letters
 Texas Journal of Science
 Thai Journal of Agricultural Science
 Theoretical and Applied Genetics
 Tierärztliche Umschau
 Timber Note, Queensland Department of Forestry
 Tissue & Cell
 Tobacco International
 Tochigi Prefectural Agricultural Experiment Station
 Toxicity Assessment
 Toxicologic Pathology
 Toxicology and Applied Pharmacology
 Toxicology Letters
 Toxicon
 Transactions of Indian Society of Desert Technology
 Transactions of the American Entomological Society
 Transactions of the ASAE, American Society of Agricultural Engineers
 Transactions of the British Mycological Society
 Transactions of the Illinois State Academy of Science
 Transactions of the Shikoku Entomological Society
 Transplantation
 Travaux du Muséum d'Histoire Naturelle 'Grigore Antipa', Romania
 Trends in Ecology and Evolution
 Tropical Agriculture, UK

Tropical Ecology
 Tropical Grain Legume Bulletin
 Tropical Pest Management
 Tropical Science
 Trudy Gosudarstvennogo Nikitskogo Botanicheskogo Sada
 Trudy Latviiskoi Sel'skokhozyaistvennoi Akademii
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 Tsitologiya i Genetika
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 Turrialba
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 UCLA Symposia on Molecular and Cellular Biology, New Series
 UNILEC Informations, Union Nationale Interprofessionnelle des Légumes de Conserve, France
 USSR Patent
 Utah Science
 Uttar Pradesh Journal of Zoology
 Växtskyddsnotiser
 Växtskyddsrapporter, Avhandlingar
 Vědeckotechnický Rozvoj v Zemědělství
 Vegetatio
 Verbondsnieuws voor de Belgische Sierteelt
 Verslagen en Mededelingen, Commissie voor Hydrologisch Onderzoek TNO
 Verslagen en Mededelingen, Plantenziektenkundige Dienst
 Věstník Československé Společnosti Zoologické
 Vestnik Zoologii
 Veterinariya, Kiev
 Veterinariya, Moscow
 Veterinarski Glasnik
 Veterinary Medical Review, German Federal Republic
 Vida Apicola
 Vie et Milieu
 Vingnanam Journal of Science
 Vita in Campagna
 Voprosy Ekologii i Okhrany Prirody
 Voprosy Virusologii
 Waldhygiene
 Waldschutz-Merkblatt
 Water Research
 Water Resources Research
 Water, Air, and Soil Pollution
 Weed Research, UK
 Weed Science
 Weed Technology
 Weta
 Wissenschaftliche Zeitschrift der Wilhelm-Pieck-Universität Rostock, Naturwissenschaftliche Reihe
 Working Document, Centro Internacional de Agricultura Tropical
 ZANCO
 Zashchita Rastenii, Moscow
 Zaštita Bilja
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 Zhongguo Shiyongjun (Edible Fungi of China)
 Zhurnal Obshchei Biologii
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 Znanost i Praksa u Poljoprivredi i Prehrambenoj Tehnologiji
 Zoologicheskii Zhurnal
 Zoologica Scripta
 Zoological Catalogue of Australia
 Zoological Record
 Zoological Science
 Zoologicheskii Zhurnal
 Zoologische Bijdragen
 Zoologische Jahrbücher, Abteilung für Allgemeine Zoologie und Physiologie der Tiere
 Zoologische Mededelingen uitgegeven door het Rijksmuseum van Natuurlijke Historie te Leiden
 Zoologische Verhandelingen uitgegeven door het Rijksmuseum van Natuurlijke Historie te Leiden
 Zoologischer Anzeiger
 Zuowu Pinzhong Ziyuan
 Zycie Weterynaryjne
 [Publication], International Development Research Centre, Canada





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- Plant Breeding & Genetics
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CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research/implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

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